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Anti-USP50 Antibody

Catalog # AP60966

Product Information

Application	WB, IHC
Primary Accession	Q70EL3
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38955

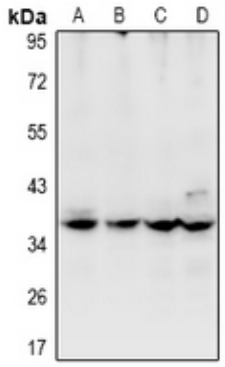
Additional Information

Gene ID	373509
Other Names	Inactive ubiquitin carboxyl-terminal hydrolase 50; Inactive ubiquitin-specific peptidase 50
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human USP50. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/50 - 1/100) IHC~~WB (1/500 - 1/1000), IHC (1/50 - 1/100)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

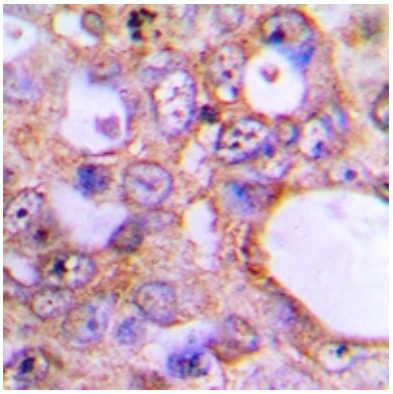
Protein Information

Name	USP50 (HGNC:20079)
Function	Deubiquitinating enzyme that removes conjugated ubiquitin from specific proteins to regulate different cellular processes. Regulates the inflammasome signaling pathway by deubiquitinating 'Lys- 63'-linked polyubiquitination of the PYCARD/ASC adapter protein (PubMed:28094437). Regulates the ubiquitination and stability of the ACE2 protein (PubMed:36876523). Acts as a negative regulator of the G2/M checkpoint pathway, by preventing serine/threonine kinase WEE1 degradation, thereby repressing entry into mitosis following activation of the G2/M DNA damage checkpoint (PubMed:20930503).
Cellular Location	Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Nucleus Note=Accumulates in the nucleus following DNA injury
Tissue Location	Weakly expressed in a few tissues.

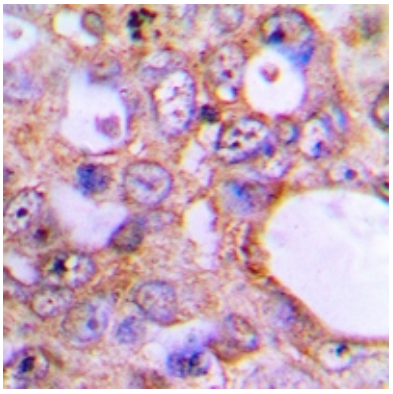
Images



Western blot analysis of USP50 expression in MCF7 (A), Hela (B), PC12 (C), CT26 (D) whole cell lysates. (Predicted band size: 38 kD; Observed band size: 38 kD)



Immunohistochemical analysis of USP50 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.